

High Capacity Helium Compressor Adsorber Replacement Kit Instructions

Purpose

The parts and instructions included in CTI-CRYOGENICS Kit P/N 8080025K001 are used to replace helium adsorbers in High Capacity Helium Compressors. Typically, adsorbers should be replaced every three years.

Kit Contents

Item Number	Description	Quantity
0001	Adsorber	1
0002	Kit Instructions	1

Adsorber Replacement

1. Turn power OFF to the High Capacity Helium Compressor.

NOTE: Use two wrenches in Steps 2 and 4 to prevent loosening the body of the self sealing coupling.

2. Using a 1-3/16 in. wrench, and a 1-1/8 in. wrench, disconnect the compressor SUPPLY self sealing coupling as shown in Figure 1.
3. Remove the screws which secure the rear panel to the High Capacity Helium Compressor and remove the rear panel.
4. Using a 1-3/16 in. wrench, and a 1-1/8 in. wrench, disconnect the self sealing coupling on the bottom of the adsorber as shown in Figure 2.

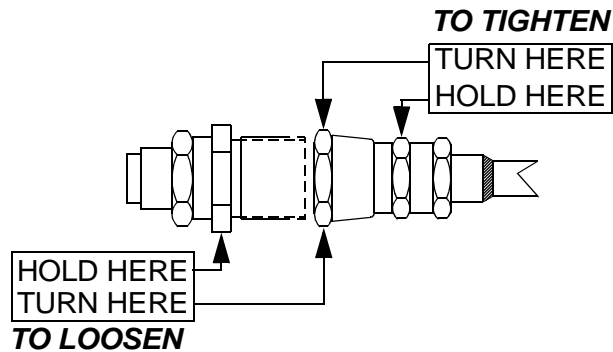


Figure 1: Disconnecting/Connecting Self Sealing Couplings

5. Using a 7/16 in. wrench, remove the adsorber mounting bolt as shown in Figure 2.
6. Slide the adsorber from under the mounting tabs in the base and remove the adsorber from the High Capacity Helium Compressor.
7. Install the replacement adsorber under the mounting tabs and secure them into place with the bolt removed during Step 5.
8. Check for the presence of a flat gasket in the male connector, and verify that there is no gasket in the female connector.
9. Connect the self sealing coupling on the bottom of the adsorber as shown in Figure 2 by hand.
10. Using two wrenches as shown in Figure 1, tighten the two self sealing coupling at the bottom of the adsorber.
11. Record the adsorber replacement date on the adsorber label.
12. Install the High Capacity Helium Compressor rear panel.
13. Connect the SUPPLY self sealing coupling on the adsorber as shown in Figure 2 by hand.

14. Using two wrenches as shown in Figure 1, tighten the SUPPLY self sealing coupling the adsorber.
15. Make sure the helium pressure gauge reads between 325 - 335 psig (22.4 - 23.1 bars). If the helium pressure needs to be increased or decreased, refer to the Compressor manual for more information.
16. Turn power ON to the High Capacity Helium Compressor.

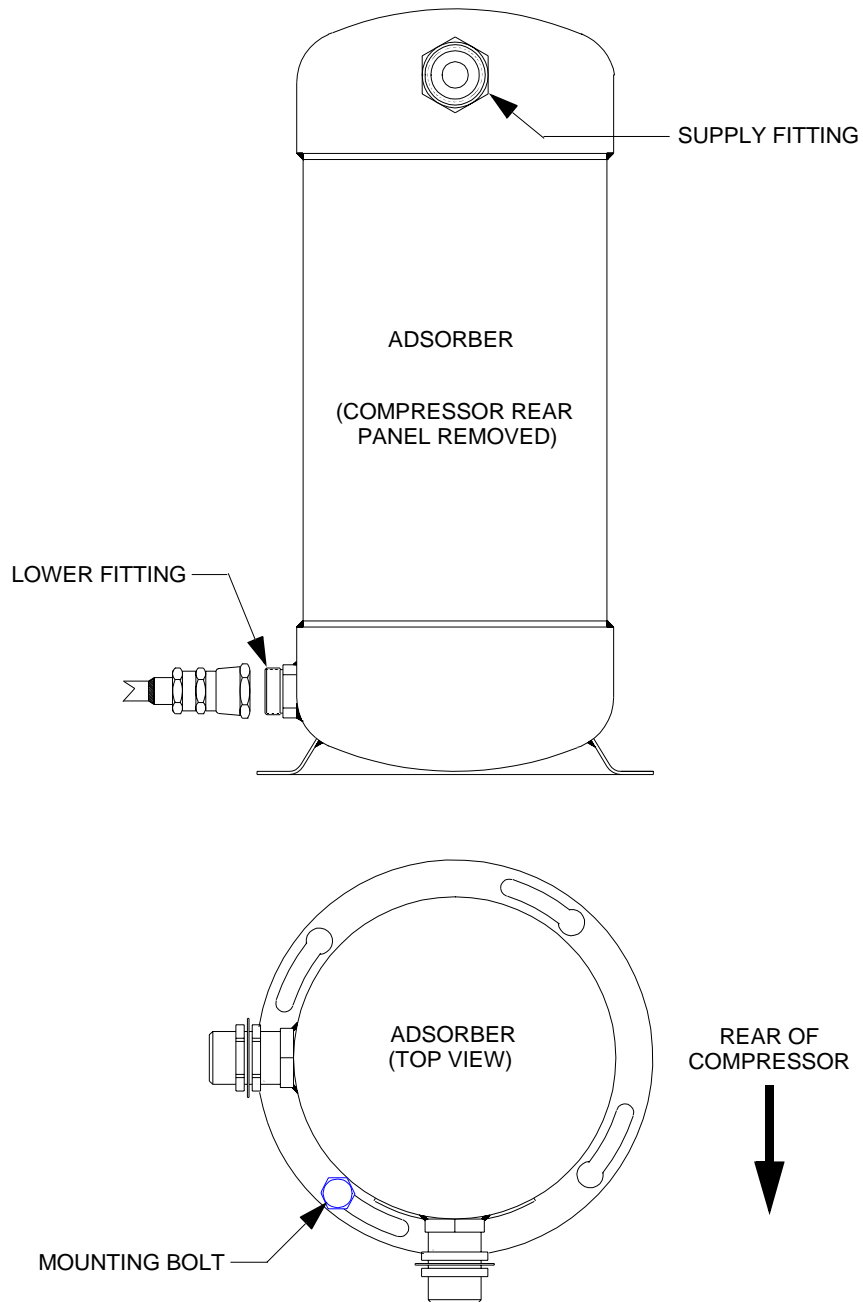


Figure 2: Adsorber Fittings and Mounting Bolt Locations